

APPARATUS FOR
INTRINSICALLY SAFE POWER INTERFACE

ABSTRACT OF THE DISCLOSURE

5 A connector (100) having multiple contacts (102) includes a supply contact (104),
a ground contact (106) and at least one other contact (108) for providing
attach/detach detection to an accessory or accessory connector. The supply and
ground contacts (104, 106) are longer than the detect contact (108) so that power
is connected prior to any of the other contacts and power is removed after any of
10 the other contacts are detached. Logical control circuitry (318) interfaces with the
connector (100) to minimize sparks upon detachment from the accessory (304).

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